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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,622	•	05/10/2001	Peter M. Will	06666/033002/USC 2857	4658
20985	7590	11/17/2005		EXAM	INER
FISH & R	ICHARI	OSON, PC	SHAFER, RICKY D		
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER
				2872	
			DATE MAILED: 11/17/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)					
Office Action Summary	09/681,622	PETER M. WILL					
emocritical cumulary	Examiner	Art Unit					
The MAILING DATE of this communication	Ricky D. Shafer	2872					
Period for Reply	n uppears on the cover shock is	iai die conceptitation de de de conce					
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MOI statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>25 October 2005</u> .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-32</u> is/are pending in the application.							
4a) Of the above claim(s) <u>4,6-18,20-25 an</u>	4a) Of the above claim(s) 4,6-18,20-25 and 27 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3,5,19,26 and 28-32</u> is/are reje	ected.						
·	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement						
on the state of th	and/or cicotion requirement						
Application Papers							
9)☐ The specification is objected to by the Exa							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)	· <del>-</del>	Summary (PTO-413)					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ul>	~'	(s)/Mail Date Informal Patent Application (PTO-152)					

## **DETAILED ACTION**

- 1. A request for continued examination under 37 CFR 1.114; including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/21/2005 has been entered.
- 2. Claims 1-3, 5, 19, 26 and 28-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 8, "the location" lacks proper antecedent basis.

In claim 19, lines 3-6, the use of the language "arranged such that...reflector elements" would appear to be misdescriptive of the elected species, depicted by Fig. 2, due to the fact that each of the plurality of the reflector elements would appear to reflect "away from" another of the plurality of the reflector elements.

In claim 30, line 11, the language "said movable mirrors" is vague, indefinite and confusing. It is unclear to the examiner whether the above language is referring to the plurality of reflector elements recited previously or adding a plurality of additional movable mirrors. Thus, the metes and bounds of the claim is unclear.

In claim 31, line 2, the language "said applying a focused optical beam" lacks proper antecedent basis

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Leddy et al ('493).

To the extent the claims are definite, Leddy et al discloses an optical device comprising a source (24) for supplying an input optical beam to an array of movable reflector/mirror elements-DMD (28), wherein said input optical beam is reflected by said array of movable reflector/mirror elements to form an output optical beam at location (26) and a controller (not shown) for controlling said array of reflector/mirror elements in a digital mode (see column 4, lines 45-52), wherein a scene generator generates multiple digital bits for each of the individual reflector/mirror elements of the DMD and said controller, based on each change of each single digital bit of said multiple digital bits, selectively controls said reflector/mirror elements and thus changes the location where said output beam is directed. Note Figures 1a and 5a to 12 along with the associated description thereof.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leddy et al ('493) in view of Lin et al ('869).

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Leddy et al discloses all of the subject matter claimed, note the above explanation, except for explicitly stating that the array of reflector/mirror elements having different sizes.

Lin et al teaches it is well known to employ different sizes for reflector/mirror elements in the same field of endeavor for the purpose of changing the phase of a wave front of a beam.

Therefore, it would have been obvious and/or within the level of one of ordinary skill the art at the time the invention was made to modify the reflector/mirror elements of Leddy et al to include different sizes, as taught by Lin et al, in order to change the phase of a wave front of a beam so as to increase the processing of information.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky D. Shafer whose telephone number is (571) 272-2320. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**RDS** 

November 12, 2005